Uttar Pradesh Madhyamik Shiksha Parishad Class 12 Model Question Papers for Biology

Model Paper-2021-22

Biology (only Question Paper)

Class-12

Time – 3 hours 15 minutes MM-70 Note- First 15 minutes are allotted for the candidates to read the question paper. Instructions-١. All questions are compulsory II. Illustrate your answers with labelled diagrams wherever necessary. Marks allotted to each questions are mentioned against it. III. 1- Choose the correct option and write in your answer book: a) Which of the following part represents the male sex organ of the flower- 1 i. Stamen ii. Pistil iii. Megasporangium iv. Pollination b) In Human, sex of baby determined by-1 Sex chromosome of mother ii. Size of ovum Size of sperm iii. Sex chromosome of father iv. c) Genetic engineering is used in -1 In Medicine i. ii. In Agriculture iii. In both (i) and(ii) iv. None of these d) Lichen, which is responsible for ecological succession, in fact it shows 1 symbiotic relation between i. Algae – bacteria

ii.

Algae- fungi

| i۱ | v. Fungi- bacteria | |
|-------|---|---------|
| 2- V | ery short answer type questions- | |
| а |) Write chromosome number in klinefelter and turnor syndrome. | 1 |
| |) By which division do male germinal cells form sperms? | 1 |
| С |) What is the number of chromosomes in pollen grain mother cell? | 1 |
| d |) Write the name of enzyme which breaks the DNA in small segments. | 1 |
| е |) What are plants called due to carbon dioxide fixation? | 1 |
| 3- Sł | nort answer type questions- I | |
| a |) Define sex determination in birds. | 2 |
| b |) Draw well labelled diagram of double helix DNA model proposed by V | Vatson |
| | and crick. | 2 |
| С |) What is immunity? | 2 |
| d |) An orchid plant is growing on the branch of mango tree. How would y | ou/ |
| | describe the interaction between these two? | 2 |
| е |) Draw clean linear diagram of biological response. | 2 |
| Shor | t answer type questions-II | |
| 4 – a | a) Write any three differences between microsporangia and megasporar | ngia. 3 |
| I | b) In our society, when girls are born, only women are blamed. Define w | hy it |
| is no | et correct. | 3 |
| (| c) Define Mendol's Law of dominance with the help of monohybrid cros | s. 3 |
| | d) Which feature of DNA – helix help Watson and Crick to propose semi | _ |
| cons | servative hypothesis of DNA replication? Define it. | 3 |
| 5 – a | a) Draw clean and labelled diagram of life – cycle of Malaria parasite. | 3 |
| b |) How biological studies help us to control infectious diseases? | 3 |
| С |) How biological fertilizers help to increase soil fertility? | 3 |

iii.

Bacteria - fungi

| d) What are Baculoviruses? | | 3 |
|----------------------------|--|------|
| 6 – a) | Write down short notes on the following – | 3 |
| | i.PCR | |
| | ii.Restriction endonuclease enzyme | |
| b) | What is the use of genetic engineering in field of agricultures? | 3 |
| c) | What do you understand by transgenic animal? Give any one example. | + 1 |
| d) | Differentiate between the following - | 3 |
| | i.Hibernation and Astivation | |
| | ii.Ectothermic and Endothermic | |
| Long answe | er type question- | |
| 7 – Describe | e human's male reproductive system with the help of labelled $2 + 2$ | 2+1 |
| diagram | n. Where do sperms store in the system? | |
| | OR | |
| Define n | microsporogenesis in flowering plants with the help of labelled 3 | +2 |
| diagram | | |
| 8- What is | genetic code? Define main characterstics of genetic code. 2 | + 3 |
| | OR | |
| What is I | Mendol's Law of segregation? Define it with the help of checker boa | ırd. |
| Why it is ca | lled as Law of purity of gamets? 2 + 2 | + 1 |
| 9 – What is | adaptation? Explain with the help of examples. 2 | + 3 |
| | OR | |
| | the main reasons of race damage (species degradation) in any raphical areas? | 5 |